UNIVERSITY OF THESSALY

DEPARTMENT OF ELECTRICAL & COMPUTER ENGINEERING
SCHOOL OF ENGINEERING
2024-2025

COURSE CODE		COURSE	SEMESTER
1.	ECE119	Digital Design (Core) 6ECTS	WS
2.	ECE317	Artificial Intelligence (Elective) 6ECTS	WS
3.	ECE321	Concurrent Programming (Elective) 6ECTS	WS
4.	ECE325	Digital Signal Processing (Elective) 6ECTS	WS
5.	ECE327	Digital Systems VLSI (Elective) 6ECTS	WS
6.	ECE329	Education Technologies (Elective) 6ECTS	WS
7.	ECE331	Electrical Machines (Elective) 6ECTS	WS
8.	ECE333	Digital Systems Lab (Elective) 6ECTS	WS
9.	ECE337	Linear Programming (Elective) 6ECTS	WS
10.	ECE339	Applied Statistics (Elective) 6ECTS	WS
11.	ECE341	Advanced Electronics (Elective) 6ECTS	WS
12.	ECE314	Electromagnetic Fields I (Elective) 6ECTS	SS
13.	ECE316	Power Systems I (Core) (Elective) 6ECTS	SS
14.	ECE318	Operating Systems (Elective) 6ECTS	SS
15.	ECE320	Measurement Systems (Elective) 6ECTS	SS
16.	ECE324	Introduction to the Theory of Computation (Elective) 6ECTS	SS
17.	ECE326	Object Oriented Programming (Elective) 6ECTS	SS
18.	ECE328	Information Retrieval (Elective) 6ECTS	SS
19.	ECE334	Pattern Recognition (Elective) 6ECTS	SS
20.	ECE338	Parallel Computer Architecture (Elective) 6ECTS	SS
21.	ECE340	Embedded Systems (Elective) 6ECTS	SS
22.	ECE348	Distributed Systems (Elective) 6ECTS	SS
23.	ECE350	Electrotechnical Materials (Elective) 6ECTS	SS
24.	ECE352	Image Processing (Elective) 6ECTS	SS
25.	ECE354	Introduction to Nanoelectronics (Elective) 6ECTS	SS
26.	ECE356	Special Topics/ Projects (Elective) 6ECTS	SS
27.	ECE411	Power Systems II (Elective) 6ECTS	WS
28.	ECE419	Logical and Functional Programming (Elective) 6ECTS	WS
29.	ECE425	Testing and Verification of Digital Circuits (Elective) 6ECTS	WS
30.	ECE431	CAD Algorithms (Elective) 6ECTS	WS
31.	ECE437	Electrical Installations (Elective) 6ECTS	WS
32.	ECE439	Special Topics/ Projects (Elective) 6ECTS	WS

33.	ECE445	Parallel and Distributing Computing (Elective) 6ECTS	**WS**
34.	ECE447	Neuro-Fuzzy Computing (Elective) 6ECTS	**WS**
35.	ECE461	Machine Learning for Data Science and Analytics (Elective) 6ECTS	**WS**
36.	ECE463	Telecommunications Systems II (Elective) 6ECTS	**WS**
37.	ECE414	Applied Stochastic Processes (Elective) 6ECTS	**SS**
38.	ECE416	Network Optimization (Elective) 6ECTS	**SS**
39.	ECE418	Blockchain Technologies and Decentralized Applications (Elective) 6ECTS	**SS**
40.	ECE420	Game Architecture and Development (Elective) 6ECTS	**SS**
41.	ECE422	Data Mining (Elective) 6ECTS	**SS**
42.	ECE424	Multiagent Systems (Elective) 6ECTS	**SS**
43.	ECE434	Complex Networks (Elective) 6ECTS	**SS**
44.	ECE436	Wireless Communications (Elective) 6ECTS	**SS**
45.	ECE444	Physical CAD Algorithms (Elective) 6ECTS	**SS**
46.	ECE450	Computer Networks II (Elective) 6ECTS	**SS**
47.	ECE456	Control and Stability of Power Systems (Elective) 6ECTS	**SS**
48.	ECE458	Special Topics/ Projects (Elective) 6ECTS	**SS**
49.	ECE460	Advanced Data Management (Elective) 6ECTS	**SS**
50.	ECE468	Network and Information System Security (Elective) 6ECTS	**SS**
51.	ECE470	Software Engineering (Elective) 6ECTS	**SS**
52.	ECE472	Industrial Automation and Control (Elective) 6ECTS	**SS**
53.	ECE474	Special Topics of Electrical Installations (Elective) 6ECTS	**SS**
54.	ECE480	Deep Learning and its Applications (Elective) 6ECTS	**SS**
55.	ECE484	Radhard Circuit Design (Elective) 6ECTS	**SS**
56.	ECE486	Electroacoustics (Elective) 6ECTS	**SS**
57.	ECE488	Design of Quantum Computers (Elective) 6ECTS	**SS**
58.	ECE492	Introduction to Robotics (Elective) 6ECTS	**SS**
59.	ECE494	Processor Design (Elective) 6ECTS	**SS**
60.	ECE513	Circuit Simulation Algorithms (Elective) 6ECTS	**WS**
61.	ECE515	Mobile and Pervasive Computing (Elective) 6ECTS	**WS**
62.	ECE541	Database Management Systems II (Elective) (Elective) 6ECTS	**WS**
63.	ECE553	Design Thinking (Elective) 6ECTS	**WS**
64.	ECE555	Advanced Topics in Computer Networks (Elective) 6ECTS	**WS**
65.	ECE557	Manufacturing of Semiconductor Devices (Elective) 6ECTS	**WS**
66.	ECE561	Formal Verification of Cryptosystems (Elective) 6ECTS	**WS**
67.	ECE563	Radar Systems and Remote Sensing (Elective) 6ECTS	**WS**
68.	ECE565	Special Topics/ Projects (Elective) 6ECTS	**WS**